

SYSTEM SCHEMATICS

A2000
REVISION 6

AUGUST, 1989

PN-314135-02



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INTERNATIONAL EDITION

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COMPONENT PARTS LIST

PCB ASSEMBLY #312720, REV. 6.0

312720-05 PCB ASSY, A2000CR NTSC
312720-06 PCB ASSY, A2000CR PAL

Commodore part numbers are provided for reference only and do not indicate the availability of parts from Commodore. Industry standard parts (Resistors, Capacitors, Connectors) should be secured locally. Approved cross-references for TTL chips, Transistors, etc. are available in manual form through the Service Department, order #314000-01.

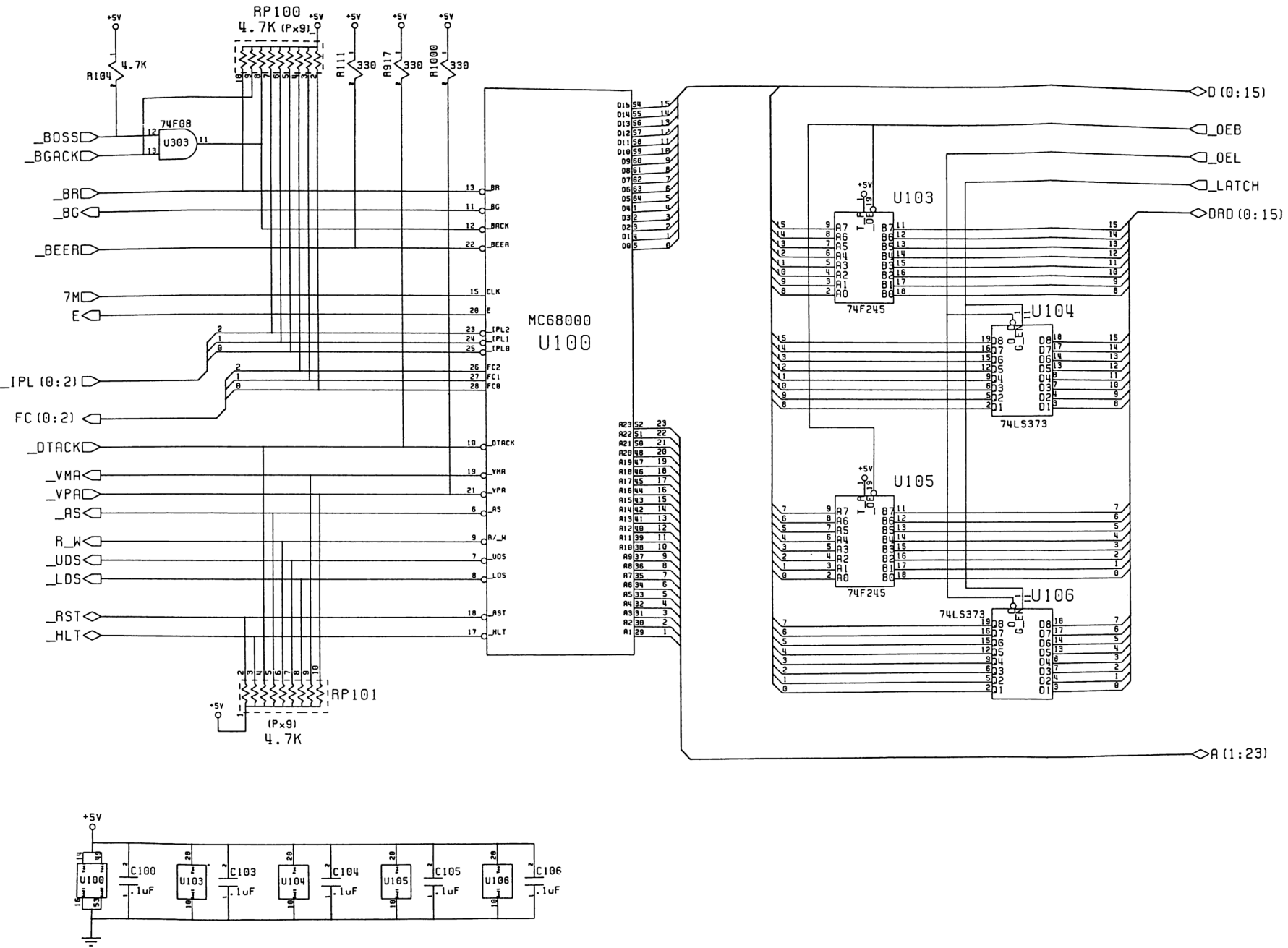
IC COMPONENTS		
390084-03	MC6800, 8 MHz	U100
318069-01	SUPER AGNUS, 8372	U101
252127-01	PAULA, 8364	U200
252126-01	DENISE, 8362	U201
318072-01	GARY, 5719	U102
318075-01	BUSTER, 5721	U800
318029-02	8520R4	U300,U301
315093-02	ROM, KICKSTART V1.3	U500
318073-01	REALTIME CLOCK, OKI MSM6242B	U801
901882-01	1488	U304
901883-01	1489	U305
318099-04	DRAM, 256K X 4, 120 ns	U501-U508
390110-01	74F04	U107
390203-01	74F08	U303
901521-03	74LS08	U607,U803
901521-31	74LS32	U302,U606
901521-38	74LS38	U203
901521-06	74LS74A	U108
901521-16	74LS138	U802
901521-86	74LS148	U804
901521-11	74LS157	U202
318050-01	74F244	U540,U541
318828-01	74HCT244	U205,U206
310002-01	74HC244	U205,U206 MUST BE USED WITH RP904-RP906
390089-01	74F245	U103,U105
901521-46	74LS245	U600,U601,U603,U604
318092-01	74ALS245	U602,U605
901521-29	74LS373	U104,U106
390086-01	LF347/TL084	U204
318827-01	LM339	U805
901423-09	LM2901	SUB: U805
318066-01	74F00	U900
904150-06	40 PIN, DIP	U300,U301,U500
251313-02	48 PIN, DIP	U102,U200,U201,U800
251313-02	48 PIN, DIP	SUB: U102,U200,U201, U800
904150-10	64 PIN, DIP	U100
390185-01	84 PIN, PLC	U101
RESISTOR NETWORKS		
390227-03	22 OHM X 5, 10 PIN	RP502
902422-05	47 OHM X 4, 8 PIN	R102,RP201,RP203, R902,R907
390227-06	47 OHM X 5, 10 PIN	RP500,RP501
902422-06	68 OHM X 4, 8 PIN	RP204
902441-10	120 OHM X 5, 6 PIN	RP205
902410-11	470 OHM X 9, 10 PIN	RP503
390227-07	1K OHM X 7, 8 PIN	RP800
902441-22	1K OHM X 5, 6 PIN	RP301,RP607
902442-22	1K OHM X 7, 8 PIN	RP800
902410-10	1K OHM X 9, 10 PIN	RP601-RP605,RP700-RP704
902441-29	3.3K OHM X 5, 6 PIN	RP903,RP908
902441-31	4.7K OHM X 5, 6 PIN	RP904,RP905,RP906
902442-55	4.7K OHM X 9, 10 PIN	RP801
902410-08	4.7K OHM X 9, 10 PIN	RP100,RP101,RP200, RP705
902442-35	10K OHM X 7, 8 PIN	RP600
902410-07	10K OHM X 9, 10 PIN	RP300,RP900,RP901
RESISTORS 5% @ 1/4 WATT, unless otherwise noted		
901600-36	1 OHM, 5%, 1/4 WATT	R914
901550-118	1 OHM	R200,R215
901550-64	10 OHM	R207,R208
901550-63	22 OHM	R105,R106,R212
901600-15	47 OHM	R310
RESISTORS 5% @ 1/4 WATT, unless otherwise noted (Continued)		
901550-56	47 OHM	R904,R905
901550-94	68 OHM	R307
901550-112	200 OHM	R308
901550-14	330 OHM	R110,R111,R114,R115, R917,R1000
901550-108	360 OHM	R230,R240
901550-57	390 OHM	R234,R244
901550-58	470 OHM	R801,R803
901550-01	1K OHM	R233,R243,R301,R302, R311,R312,R601-R605
901550-17	1.2K OHM	R800,R900
901550-23	2.7K OHM	R209,R210
901550-02	3.3K OHM	R213
901440-19	4.7K OHM	R990
901550-20	10K OHM	R101,R104,R109,R201, R300,R309,R500,R806, R807,R902,R916
901550-22	47K OHM	R202,R203,R206,R211, R214,R216,R231,R232, R241,R242,R305,R306, R802,R804
901550-82	470K OHM	R805
	POSITION LEFT BLANK	R204,R205
		R901
CAPACITORS		
900462-20	20 pf, MLC, AXIAL	C810
900462-29	47 pf, MLC AXIAL	C908,C913
900462-37	100 pf, MLC, AXIAL	C259-261, C304,C306, C903-C905,C907,C914, C920
900014-05	470 pf, MLC, AXIAL	C320,C321

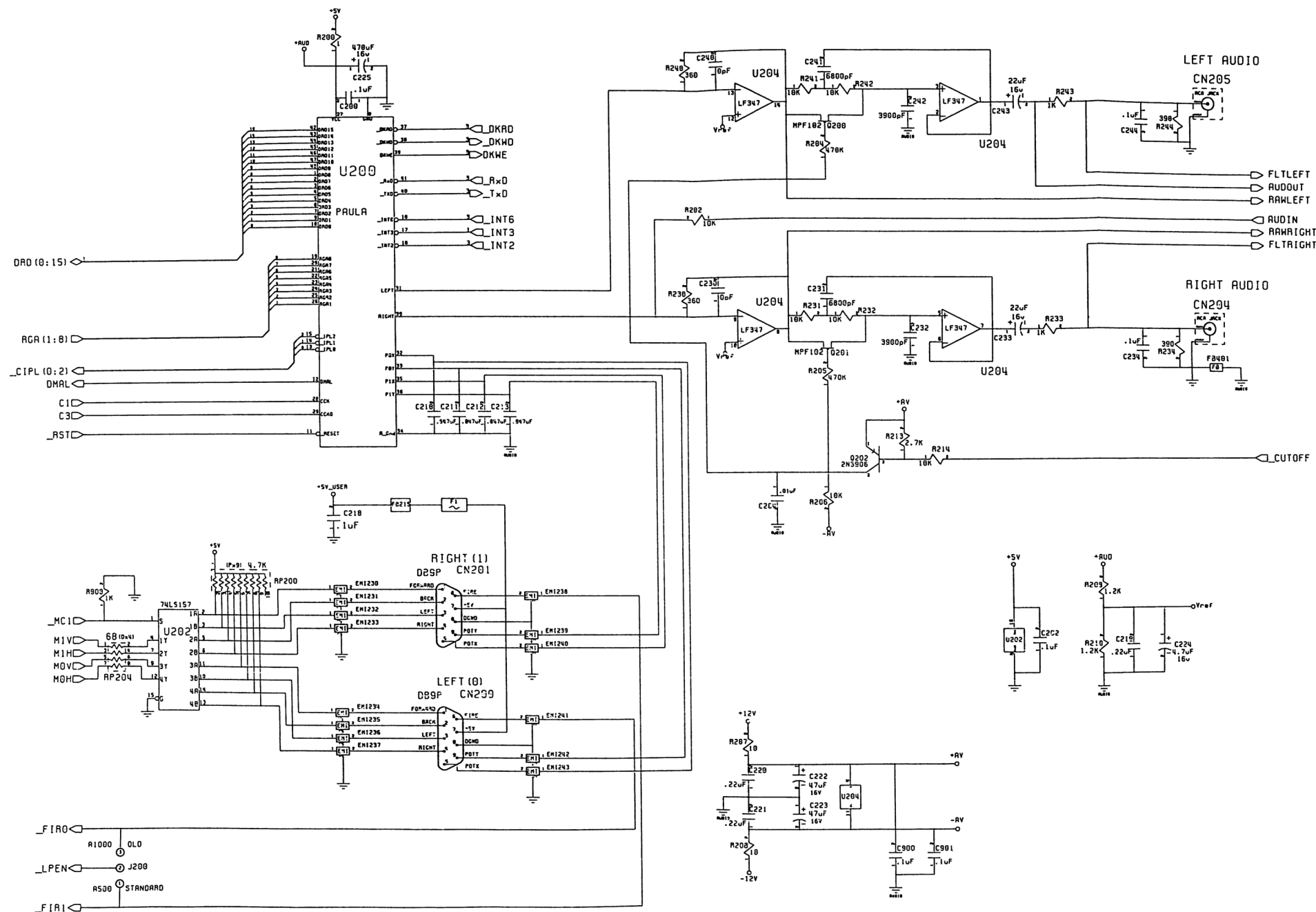
COMPONENT PARTS LIST

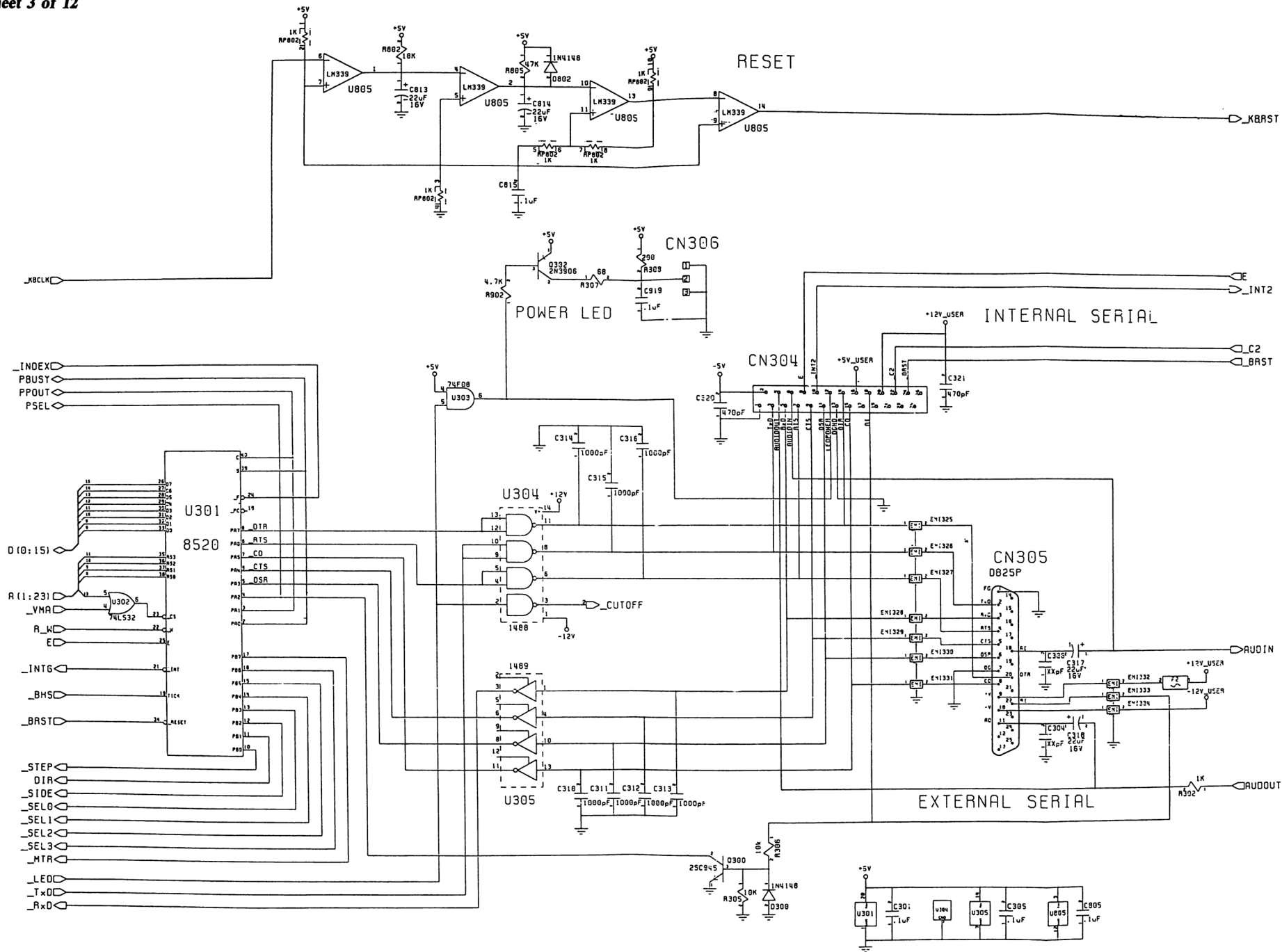
PCB ASSEMBLY #312720, REV. 6.0 (Continued)

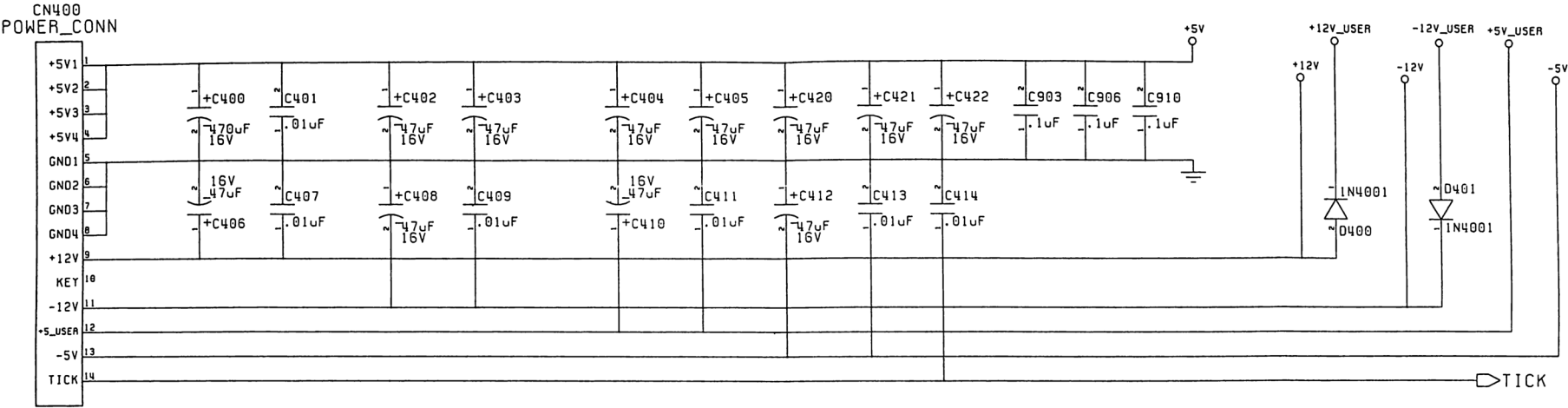
CAPACITORS (Continued)			CONNECTORS (Continued)		
390101-04	22 uf, 35V, ELEC, RADIAL	C233,C243,C317,C318, C701,C813,C814	903345-13	26 PIN, DIL, .100	CN304
390101-01	47 uf, 16V, ELEC, AXIAL	C222,C223,C402-C406, C408,C410,C412,C420- C422	903345-17	34 PIN, DIL, .100	CN303
900101-47	220 uf, 16V, ELEC, AXIAL	C400,C416-C419	390043-01	SHUNT, FEMALE, 2 POS, 0.100	J101,J200,J300,J500, J900
390101-03	470 uf, 16V, ELEC, RADIAL	C214,C225,C226,C912	359590-01	SHUNT, FEMALE, 2 POS, 0.100	J101,J200,J300,J500, J900
251019-06	VARIABLE 4.5-45pf	VC800	903446-04	36 PIN	CN203,CN207,CN706, CN707
	POSITIONS LEFT BLANK	C230,C240,C902,C917	903646-04	36 PIN	CN704,CN705
DIODES AND TRANSISTORS			MISCELLANEOUS		
900750-01	DIODE, 1N4001	D400,D401	903446-02	62 PIN	CN700-CN703
900850-01	DIODE, 1N4148	D300,D800-D802	903446-05	86 PIN	CN600
902658-01	TRANSISTOR, 2N3904, NPN	Q301	903436-06	100 PIN	CN601-CN605
902707-01	TRANSISTOR, 2N3906, PNP	Q202,Q302	903446-07	36/62 PIN	CN702,CN703,CN706, CN707
390252-01	TRANSISTOR, MPF102, JFET	Q200,Q201			
390254-01	TRANSISTOR, PN4302, JFET	Q200,Q201	390229-01	VIDEO HYBIRD	HY200
902671-01	TRANSISTOR, 2SC945, NPN, JAP	Q300	325566-14	OSCILLATOR, 28.63636 MHz	XI
CONNECTORS			252344-01	OSCILLATOR, 28.37516 MHz	XI
252166-03	DIN, 5 PIN, SHIELDED, FEMALE	CN300	900568-03	CRYSTAL, 32.768 KHz	Y800
390242-01	D-SUB, 9 PIN, MALE, PCB	CN200	390280-01	PCB FUSE	F1-F5
390242-02	D-SUB, 9 PIN, MALE, PCB	CN200	312721	SCHEMATIC	
327032-07	D-SUB, 9 PIN, MALE, PCB	CN201	312722	PCB FABRICATION	
327032-01	D-SUB, 9 PIN, MALE, PCB	CN201	312723	ARTWORK	
390242-03	D-SUB, 23 PIN, MALE, PCB	CN202	251842-02	EMI FILTER, 100pF	EM1200,EM1206, EM1207,EM1210
390242-04	D-SUB, 23 PIN, MALE, PCB	CN202			EM1211,EM1229, EM1322-EM1324, EM1339-EM1341
327033-04	D-SUB, 23 PIN, FEMALE, PCB	CN302	390275-03	EMI FILTER, 330pF	EM1300-EM1310, EM1325-EM1338
327033-03	D-SUB, 23 PIN, FEMALE, PCB	CN302	390275-01	EMI FILTER, 6800 pF	EM1209,EM1230- EM1243
390242-05	D-SUB, 25 PIN, MALE, PCB	CN305	390297-02	EMI FILTER, 100pF W/FERRITE	EM1208,EM1311- EM1321
390242-06	D-SUB, 25 PIN, MALE, PCB	CN305	903025-01	FERRITE BEAD	FB101,FB215,FB301- FB303,FB401,FB907
390241-05	D-SUB, 25 PIN, FEMALE, PCB	CN301	903025-08	FERRITE BEAD	FB102
390241-06	D-SUB, 25 PIN, FEMALE, PCB	CN301	252214-01	FERRITE BEAD, MEDIUM	FB216-FB221,EM1202, FB900-FB903
242122-01	RCA JACK, WHITE	CN205 LEFT AUDIO	380393-01	BATTERY, NICAD, 3.6V, 60MAH	BT800
252122-04	RCA JACK, BLACK	CN204 RIGHT AUDIO			
252122-03	RCA JACK, YELLOW	CN206			
906800-02	SCREW, M3 X 0.5 X 10	CN201,CN302			
905960-03	NUT, M3 X 0.5	CN201,CN302			
903328-14	14 PIN, SIL, .156, KEY 10, LOCK	CN400			
903326-02	2 PIN, SIL, .100	J301,J500,J900			
903326-03	3 PIN, SIL, .100	J101,J200,J300			
903374-03	3 PIN, SIL, .100, RA	CN306			
903326-04	4 PIN, SIL, .100	CN606			



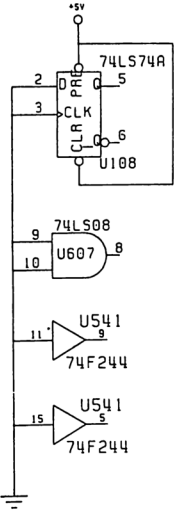
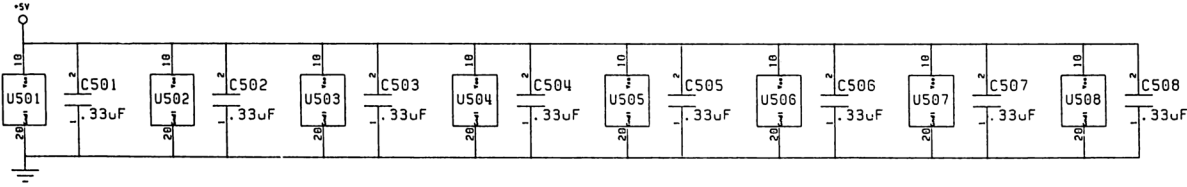




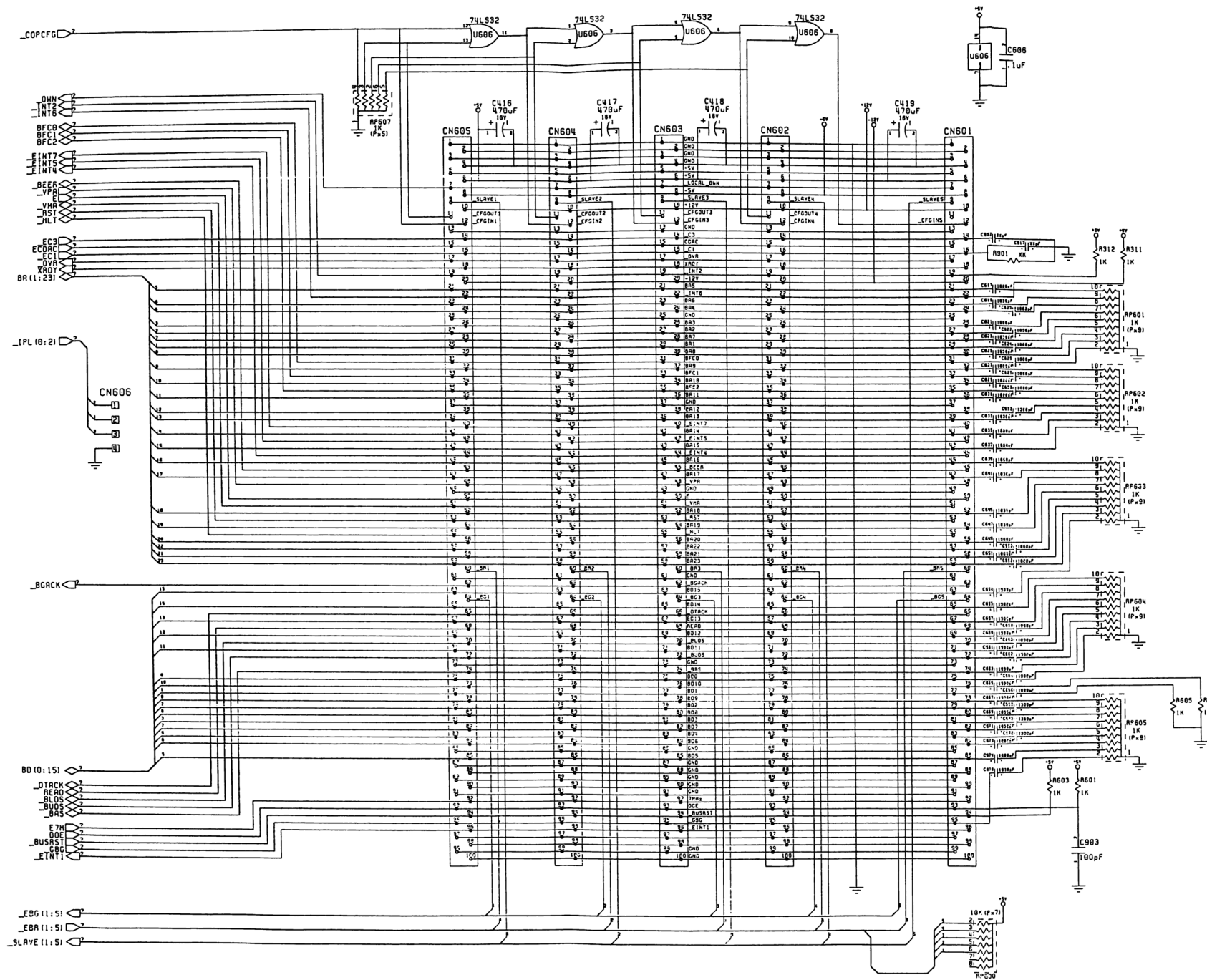




SPARES







IBM 16 BIT EXTENDED BUS

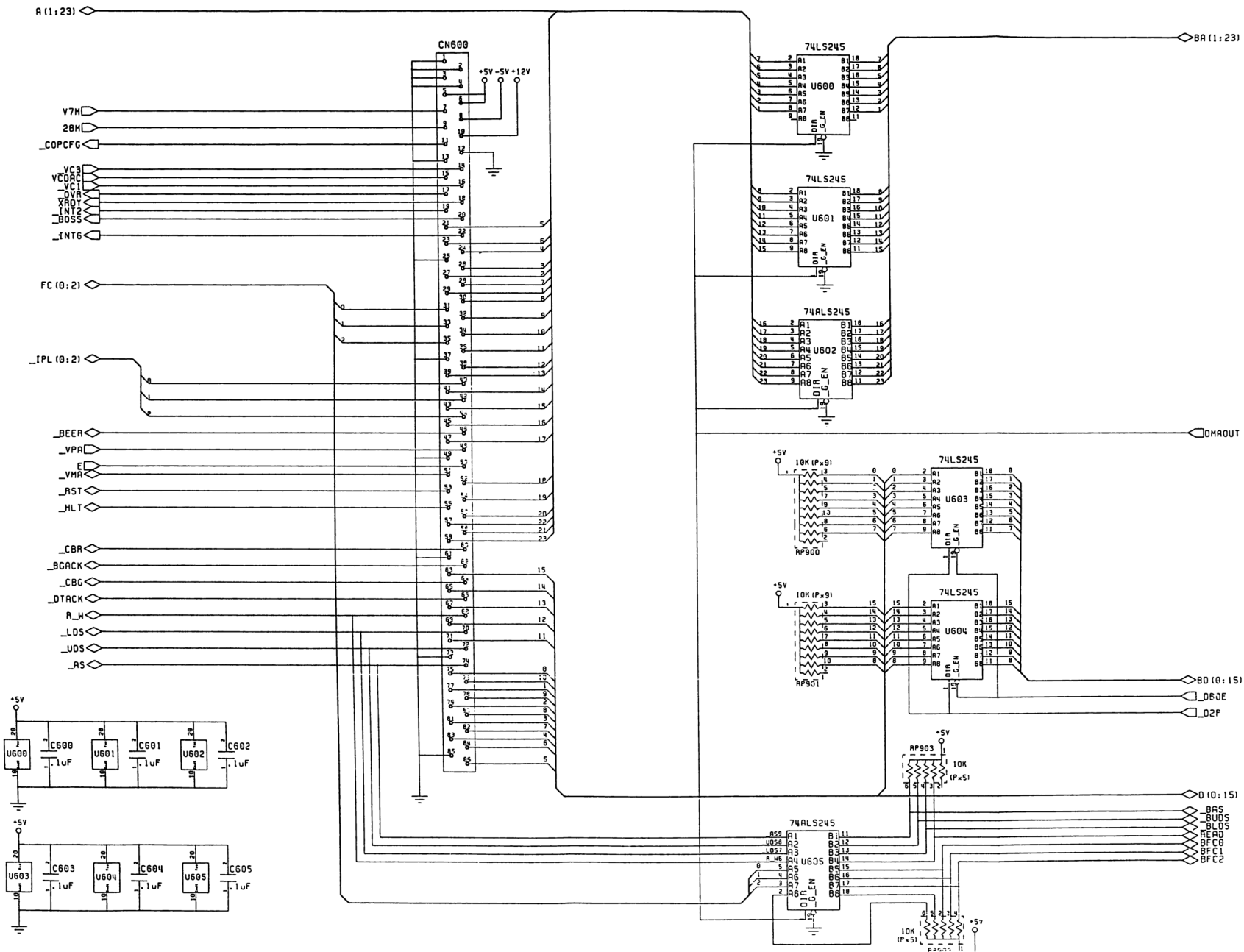








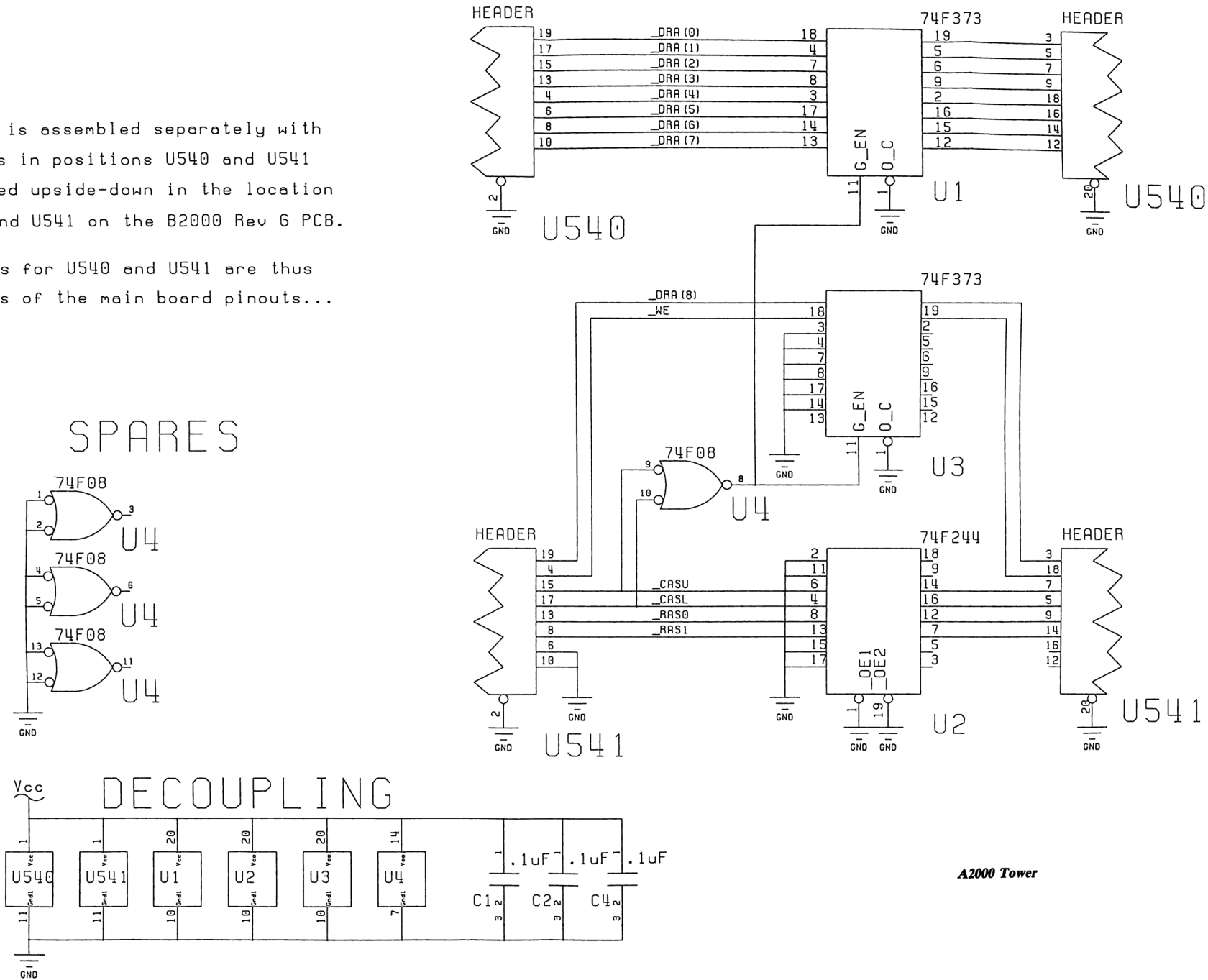




Note:

This tower is assembled separately with DIP headers in positions U540 and U541 and inserted upside-down in the location for U540 and U541 on the B2000 Rev 6 PCB.

The pinouts for U540 and U541 are thus reflections of the main board pinouts...



A2000 Tower



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